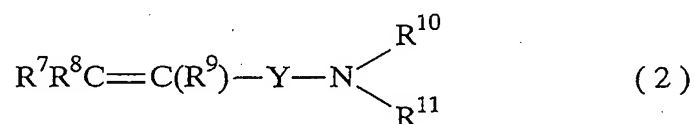
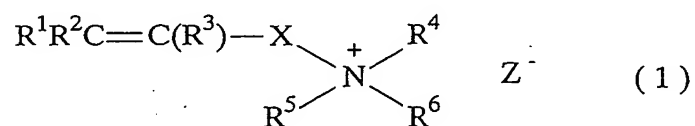


# CLAIMS

1. An antifouling detergent for hard surfaces, comprising a polymer comprising a monomer unit A having at least one substituent selected from the group consisting of amino groups and quaternary ammonium groups and a monomer unit B represented by  $-\text{SO}_2-$ , wherein the content of the monomer unit A in the whole monomer units is 10 to 99 mol-% and the molar ratio of the monomer unit B/the monomer unit A is from 0.01 to 1.

2. The antifouling detergent for hard surfaces according to claim 1, wherein the monomer unit A is derived from a compound represented by the general formula (1) below and/or a compound represented by the general formula (2) below:



wherein  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^7$ ,  $\text{R}^8$  and  $\text{R}^9$  each represent a hydrogen atom, a hydroxyl group or a  $\text{C}_{1-3}$  alkyl group; each of X and Y is a group selected from the group consisting of a  $\text{C}_{1-12}$  alkylene group,  $-\text{COOR}^{12}-$ ,  $-\text{CONHR}^{12}-$ ,  $-\text{OCOR}^{12}-$  and  $-\text{R}^{13}-\text{OCO}-\text{R}^{12}-$  whereupon  $\text{R}^{12}$  and  $\text{R}^{13}$  each represent a  $\text{C}_{1-5}$  alkylene group;  $\text{R}^4$  represents a  $\text{C}_{1-3}$  alkyl group, a  $\text{C}_{1-3}$  hydroxyalkyl group or  $\text{R}^1\text{R}^2\text{C}=\text{C}(\text{R}^3)-\text{X}-$ ;  $\text{R}^5$  represents a  $\text{C}_{1-3}$  alkyl group, a  $\text{C}_{1-3}$  hydroxyalkyl group or a benzyl group;  $\text{R}^6$  represents a  $\text{C}_{1-10}$  alkyl group which may be substituted with

a hydroxy group, a carboxyl group, a sulfonate group or a sulfate group or a benzyl group, provided that when  $R^6$  is an alkyl group, a hydroxyalkyl group or a benzyl group,  $Z^-$  represents an anion and when  $R^6$  contains a carboxyl group, a sulfonate group and a sulfate group,  $Z^-$  is absent, but these groups of  $R^6$  are anions;  $R^{10}$  represents a hydrogen atom, a  $C_{1-3}$  alkyl group, a  $C_{1-3}$  hydroxyalkyl group or  $R^7R^8C=C(R^9)-Y-$ ; and  $R^{11}$  represents a hydrogen atom, a  $C_{1-3}$  alkyl or a  $C_{1-3}$  hydroxyalkyl group.

3. An antifouling detergent composition for hard surfaces, comprising the polymer (a) described in claim 1 and a surfactant (b)

4. The antifouling detergent composition for hard surfaces according to claim 3, wherein the surfactant (b) is a cationic surfactant.

5. A method of antifouling and washing hard surfaces, which comprises treating the hard surfaces with the polymer described in claim 1 or the composition described in claim 2.

6. The method according to claim 5, wherein the hard surfaces are those of toilet bowl.

7. Use of the polymer described in claim 1 or the composition described in claim 2 as an antifouling detergent for hard surfaces.